

Office Action Summary

Application No.

09/872,895

Applicant(s)

ARSHAD ET AL.

Examiner

Kevin Pyo

Art Unit

2878

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-8 and 19 is/are allowed.
- 6) ☒ Claim(s) 9-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 June 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 6) ☐ Other: _____

Drawings

1. Upon the review of the application, the Examiner considered the application is entitled to a filing date. However, Fig.4 is missing. Accordingly, in accordance with MPEP 601.01(g) applicant must do one of the following:

(A) accept the application, as filed, without all of the drawing figure(s) referred to in the specification;

(B) file any omitted drawing figure(s) with an oath or declaration in compliance with 37 CFR 1.63 and 37 CFR 1.64 referring to the omitted drawing figure(s) and a petition under 37 CFR 1.182 with the petition fee set forth in 37 CFR 1.17(h), requesting the date of submission of the omitted drawing figure(s) as the application filing date; or

(C) file a petition under 37 CFR 1.53(e) with the petition fee set forth in 37 CFR 1.17(h) alleging that the drawing figure(s) indicated as omitted was in fact deposited with the USPTO with the application papers, including any and all evidence supporting the allegation. See MPEP § 503. The petition fee will be refunded if it is determined that the drawing figure(s) was in fact received by the USPTO with the application papers deposited on filing.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the recited limitations of claims 1-19 (i.e. the second cylinder, the second source light guide, the second reflected light guide, the second photodiode, the second photodiode amplifier, etc) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities:

(1) The handwritten amendment to the specification does not comply with CFR 1.52(a)(iv). Any such desired change should be made in amendment complying CFR.121.

(2) On page 4, lines 7-10, the phrase “and adapted to transmit at leastfrom inside the cylinder to outside the cylinder” should be deleted.

(3) On page 10, line 8, “28” should be changed to --38--.

(4) On page 12, line 7, “38” should be changed to --36--.

Applicant's cooperation is requested in correcting any addition errors of which applicant become aware in the specification.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 9-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Regarding claim 9, the phrase “ the timing pulse” of line 25 lacks a proper antecedent basis. The timing pulse of What? Does it refer to “a first timing pulse” of line 3 generated in a timing circuit. In addition, the phrase “the arrival of the timing pulse” lacks a proper antecedent basis.

Regarding claim 10, claim 10 recites “the timing pulse” in line 25. It is unclear if “the timing pulse” of line 25 refers to “a first timing pulse” or “a second timing pulse”. In addition, it appears that “the second electrical signal” of lines 25-26 should be changed to --the fourth electrical signal--, since it is the fourth electrical signal, not the second electrical signal, that is provided to a comparator circuit.

Claims not specifically mentioned above are rejected by virtue of their dependency on a rejected claim.

Allowable Subject Matter

6. Claims 1-8 and 19 are allowed.

7. Claims 9-18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art fails to disclose or make obvious a multiple cylinder position sensing system utilizing a single laser source, a plurality of source light guides and a plurality of reflected light guides for measuring the position of plurality of cylinders.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Arshad et al is cited for disclose a laser based reflective beam cylinder sensor. Nagai is cited for disclosing a position sensor for a fluid cylinder comprising an ultrasonic transceiver.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Pyo whose telephone number is 703-308-4841. The examiner can normally be reached on Mon-Fri (with flexible hour), First Mon. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 703-308-4852. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



Kevin Pyo
Primary Examiner
Art Unit 2878

pkk
February 24, 2003



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,895	06/04/2001	Mohammad Javaid Arshad	13937	3178

26637 7590 02/25/2003

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RACINE, WI 53404

EXAMINER

PYO, KEVIN K

ART UNIT	PAPER NUMBER
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DATE MAILED: 02/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.